REMARKS

Claims 28, 32-33, 55 and 58-64 are pending. Claims 1-27, 29-31 and 34-54 were previously cancelled without prejudice.

<u>Rejections Under 35 U.S.C. § 103</u>

Claims 28, 32-33, 36, 40-41, 44, 48-49, and 52-60 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Takasaki et al. (US Patent Publication No. 2003/0140261) (hereinafter "Takasaki") in view of Crouch et al. (US Patent No. 6,970,080) (hereinafter "Crouch") and further in view of Butler, Jr. et al. (US Patent No. 5,647,388) (hereinafter "Butler"). In the rejection, the Examiner indicated that Takasaki discloses a method comprising providing an operating voltage to a processor and modifying the operating voltage provided to the processor based on a mode of operation of the processor, but fails to specifically disclose the processor being configured to process wireless signals and sensing a level of power supplied to the processor in order to determine a current mode of operation. The Examiner also indicated that Crouch teaches a processor configured to process wireless signals and that Butler teaches determining an anticipated change in a mode of operation of a processor. This rejection is respectfully traversed and reconsideration is respectfully requested.

Claim 28 is directed to a method comprising providing an operating voltage to a processor configured to process wireless communication signals, determining an anticipated change in a mode of operation of the processor, and modifying the operating voltage provided to the processor based on the anticipated change in the mode of operation of the processor. It is respectfully submitted that none of the cited references disclose modifying an operating voltage of a processor based on a determined anticipated change in mode of operation of the processor, as recited in the claims.

While the Examiner relies on Butler as teaching determining an anticipated change in a mode of operation of a processor, it is respectfully submitted that the Examiner is mistaken. Butler is directed to a system for supplying water to plants based

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upon detected light. It is respectfully submitted that Butler discloses, at col. 3, lines 46-51, "A processor 110 of control circuit 102 receives the first and second signals generated by the threshold circuit 108 via line 112. The processor 110 then anticipates approximately when <u>the detected light will next change from the first state to the second state</u>, and vice-versa, based on the first and second signals. In general, processor 110 determines anticipated state changes as a function of the time-in-state of previous first or second states. In the alternative, processor 110 records the time the detected light previously changed states for determining the anticipated state changes." (emphasis added) Thus, it is clear that Butler's processor 110 anticipates a change of state of detected light, that is to say an anticipated change in an environmental condition, and does not anticipate a change in a mode of operation of the processor. It is respectfully submitted that neither Takasaki nor Crouch make up for the lack of teaching in Butler.

Accordingly, it is respectfully submitted that the combination of Takasaki, Crouch and Butler fail to show or suggest all of the limitations recited in claim 28, which is thus allowable for at least these reasons. Claims 32-33 and 61-64 depend from claim 28 and therefore they are allowable for at least the reasons claim 28 is allowable.

Claim 55 is directed to an apparatus comprising a power management controller to provide an operating voltage to a processor configured to process wireless communication signals, wherein the power management controller is adapted to determine an anticipated mode of operation of the processor and to modify the operating voltage based on the anticipated mode of operation. For at least the reasons discussed above, it is respectfully submitted that claim 55 is allowable.

Claim 58 is directed to an article of manufacture comprising a storage medium, and a set of instructions stored in the storage medium, which when executed by a power management controller cause the power management controller to perform operations comprising providing an operating voltage to a processor configured to process wireless communication signals, determining an anticipated change in the mode of operation of the processor, and modifying the operating voltage provided to the processor based on the anticipated change in the mode of operation of the processor.

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For at least the reasons discussed above, it is respectfully submitted that claim 58 is allowable. Claims 59 and 60 depend on claim 58 and therefore they are allowable for at least the reasons claim 58 is allowable.

Conclusion

For these reasons, a Notice of Allowance is respectfully requested. If the Examiner has any questions concerning the present paper, the Examiner is kindly requested to contact the undersigned at (503) 796-2084. If any fees are due in connection with filing this paper, the Commissioner is authorized to charge Deposit Account No. 500393.

Respectfully submitted,

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